	SIRS (diagnostic)	NEWS Points (diagnostic)	PRESEP Points (diagnostic)	SOFA Points (prognostic)	qSOFA Points (prognostic)	SPEED Points (prognostic)	MEDS Points (prognostic)	PIRO Points (prognostic)
Temperature (°C)	> 38.0 or < 36.0	1 = 38.1-39 or 35.1-36 2 = ≥ 39.1 3 = ≤ 35	1 = < 36.0 4 = > 38.0	-	-	3 = < 36.0	_	-
Heart rate (beats/min)	> 90	1 = 41-50 or 91-110 2 = 110-130 3 = < 40 or ≥131	2 = > 90	_	_	-	_	2 = >120
Respiration rate (breaths/min)	> 20	1 = 9-11 2 = 21-24 3 = ≤ 8 or ≥ 25	1 = > 22	-	0 = < 22 1 = ≥ 22	-	3 = > 20	3 = > 20
Blood Pressure (mmHg)	_	(sBP) 1 = 101-110 2 = 91-100 3 = < 90 or ≥ 220	(sBP) 2 = < 90	1 = MAP < 70 2 = DA ≤ 5 or DBA (any dose) 3 = DA 5-15 or EPI ≤ 0.1 or NE ≤ 0.1 4 = DA > 15 or EPI > 0.1 or NE > 0.1	(sBP) 1 = ≤ 100	(sBP) 3 = < 90	_	(sBP) 4 = < 70 2 = 70-90
Peripheral oxygen saturation (%)	-	$\begin{array}{l} \textbf{1} = 94-95 \\ \textbf{2} = 92-93 \\ \textbf{3} = \le 91 \\ ^* \text{supplemental } O_2 \ +2 \ \text{pts} \end{array}$	2 = < 92	-	_	2 = < 90	3 = < 90	3 = respiratory failure or hypoxemia
PaO2/FIO2 (mmHg)	-	-	-	1 = <400 2 = <300 3 = <200 4 = <100	-	-	-	-
WBC (10 ³ cells/mm ³)	> 12 or < 4	_	-	_	-	-	-	_
Band Proportion (%)	> 10	_	-	-	-	-	3 = > 5	1 = > 5
Hematocrit (%)	_	_	-	_	-	2 = < 38	_	_
Platelet count (platelets x 10 ³ /mm ³)	_	_	-	1 = <150 2 = <100 3 = <50 4 = <20	-	_	3 = < 150	2 = < 150
Lactate (mmol/L)	-	_	-	_	_	2 = > 2.4	_	3 = > 4.0
рН	_	_	-	_	-	1= <7.35	_	_
Bilirubin (mg/dL)	_	-	-	1 = 1.2-1.9 2 = 2.0-5.9 3 = 6.0-11.9 4 = >12.0	-	_	-	-
BUN (mg/dL)	_	-	-	_	-	-	-	2 = > 20
Creatinine (mg/dL)	-	-	-	1 = 1.2-1.9 2 = 2.0-3.4 3 = 3.5-4.9 4 = >5.0	-	-	-	_
Altered mental status	-	3 = V, P or U	_	(GCS) 1 = 13-14 2 = 10-12 3 = 6-9 4 = <6	(GCS) 1 = < 15	-	2 = By history or exam	-
Immunosuppressed	-	_	-	_	_	3 = Yes	_	_
Infection	_	_	-	-	-	2 = pneumonia	2 = lower respiratory tract	4 = Pneumonia 0 = Soft tissue 2 = Other
COPD	-	_	_	-	-	_	_	1 = Yes
Liver disease	_	-	-	-	-	-	_	2 = Yes
Malignancy	-	-	-	-	-	-	_	1= Non- metastatic 2 = Metastatic
Terminal illness ^a	-	—	-	_	-	-	6 = Yes	-
Nursing Home Resident	-	-	-	-	-	-	2 = Yes	2 = Yes
Age (years)	-	-	-	-	-	-	3 = >65	1 = 65-80 2 = >80
Septic Shock ^b	_	_	_	_	_	_	3 = Yes	_

sBP = systolic blood pressure. MAP = mean arterial pressure. DA = dopamine (mcg/kg/min). DBA = dobutamine (mcg/kg/min). EPI = epinephrine (mcg/kg/min). NE = norepinephrine (mcg/kg/min). ^a Terminal illness= illness with a poor prognosis that would likely result in death within six months of diagnosis – mainly Stage IV cancer or a patient on hospice care ^b Septic shock = at least 2 SIRS criteria (heart rate > 90, respiratory rate > 20 or PaCO₂ < 32 mmHg, temperature > 100.4°F (38°C) or < 96.8°F (36°C), WBC > 15,000/mm³ or < 4000/mm³ or bands >10%) + organ dysfunction + hypotension (systolic blood pressure < 90) that persists after a bolus of 20 mL/kg

Interpretation of Existing Scores:

SIRS (diagnostic) - Inclusion of ≥ 2 of the included criteria meets the SIRS definition. WBC and percentage of bands is considered one criterion.

NEWS (diagnostic) - Add up points.

- Score:
 - 1-4: prompt assessment by a competent registered nurse who should decide if a change to the frequency of clinical monitoring or an escalation of clinical care is required.
 - 5-6 or a RED score (an extreme variation in a single physiological parameter (i.e., a score of 3 in any one physiological parameter in the NEWS column): prompt an urgent review by a clinician skilled with competencies in the assessment of acute illness.
 - ≥ 7: prompt emergency assessment by a clinical team/critical care outreach team with critical-care competencies and usually transfer of the patient to a higher-level care team.
- **PRESEP (diagnostic)** Add up points.
 - Score:
 - $\circ \geq$ 4: possible existing septic disease
- **SOFA (prognostic)** Add up points.
 - Score:
 - 0-6: < 10% mortality
 - o 7-9: 15-20% mortality
 - o 10-12: 40-50% mortality
 - o 13-14: 50-60% mortality
 - 15: > 80% mortality
 - >15: > 90% mortality
- qSOFA (prognostic) Add up points.
 - Score:
 - o 0-1: not high risk for in-hospital mortality
 - 2-3: high risk for in-hospital mortality (3- to 14-fold increase)
- SPEED (prognostic) Add up points.
 - Score:
 - o < 3: 11.0% mortality
 - o 4-6: 29.7% mortality
 - o 7-9: 57.2% mortality
 - > 10: 93.8% mortality

MEDS (**prognostic**) - Add up points. If a respiratory rate >20 and a peripheral oxygen saturation <90% are both present, only a single score of 3 will be added to the collective total score.

- Score:
 - o 0-4: 0.9-1.1% mortality
 - o 5-7: 2-4.4% mortality
 - o 8-12: 7.8-9.3% mortality
 - o 13-15: 16.1-20.2% mortality
 - o 16-27: 39-50% mortality
- PIRO (prognostic) Add up points. If a patient has pneumonia with another infection, it is scored as 4.
 - Score:
 - < 5: 0% mortality
 - o 5-9: 1.9% mortality
 - 10-14: 6.5% mortality
 - o 15-19: 24% mortality
 - ≥ 20: 57% mortality